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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,715	12/02/2004	Joe Howard	P15322-US1	9914
27045	7590	04/07/2006	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			LY, NGHI H	
			ART UNIT	PAPER NUMBER
			2617	

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/516,715

Applicant(s)

HOWARD, JOE

Examiner

Nghi H. Ly

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 11-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-13 and 15-20 is/are rejected.
- 7) ☒ Claim(s) 14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 11, 15, 16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al (US 2002/0184256 A1) in view of Matsumoto et al (US 6,711,264).

Regarding claims 11, 18 and 20, Reich teaches a method of controlling a network entity of a mobile communication network and a mobile station (see Abstract and see fig.1, wireless connection between mobile station 12 and network), wherein the network entity and the mobile station are adapted to conduct a plurality of predetermined message exchange procedures in the course of which predetermined messages are exchanged between the network entity and the mobile station depending on the given procedure (see Abstract, [006], and [0065], see "message"), where the predetermined messages may be encrypted (see [003], see "encryption"), an encrypted message being any message of which at least a part is encrypted (see [0064], see "encrypt"), and where the network entity and the mobile station are adapted to conduct one or more encryption key generation procedures during which the network entity and the mobile station generate and store respective corresponding encryption keys in order

to be able to encrypt and decrypt exchanged messages (see [0064], see “encrypt” and see Abstract, [006], and [0065], see “message”), the method comprises the steps of:

if the network entity receives a message from the mobile station, determining whether the received message is encrypted (see [0064], see “encrypt” and see Abstract, [006], and [0065], see “message”).

Reich does not specifically disclose if the received message is encrypted, determining whether a correct encryption key for decrypting the message is available to the network entity and, if no correct key is available, sending a predetermined triggering message to the mobile station, and

upon receiving the predetermined triggering message, the mobile station interrupting the procedure in the course of which it sent the encrypted message for which the network entity did not have a correct key, and initiating an encryption key generation procedure.

Matsumoto teaches if the received message is encrypted (see column 2, lines 11-13, see “*generating an encryption key*”, in order to generate an encryption key to decrypt the message, the teaching of Matsumoto inherently teaches “message is encrypted”. In addition, column 2, lines 11-15, see “*adapt to encrypt and decrypt communication contents*”), determining whether a correct encryption key for decrypting the message is available to the network entity and, if no correct key is available (see column 2, lines 11-13, see “*generating an encryption key at at least one of the communication devices*”, in order to generate an encryption key at at least one of the communication devices, the teaching of Matsumoto inherently teaches “if no correct key

is available", "to the network"), sending a predetermined triggering message to the mobile station (see column 2, lines 15-22, see "requesting the encryption key" or "upon receiving the request"). The "request" or "requesting" reads on Applicant's "triggering message"), and

upon receiving the predetermined triggering message (column 2, lines 15-22, see "upon receiving the request"). The "request" or "requesting" reads on Applicant's "triggering message"), the mobile station interrupting the procedure in the course of which it sent the encrypted message for which the network entity did not have a correct key (see column 2, lines 11-13, see "generating an encryption key at at least one of the communication devices", in order to generate an encryption key at the communication devices, the teaching of Matsumoto inherently teaches "the network entity did not have a correct key", or if the network already had the key, the communication devices of Matsumoto does not need to generate a key), and initiating an encryption key generation procedure (column 2, lines 19-22, see "generated encryption key").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Matsumoto into the system of Reich in order to improve security of communications (see Matsumoto, column 1, lines 7-9).

Regarding claim 15, Reich further teaches the one or more encryption key generation procedures comprise obtaining an encryption base value commonly available to the network entity and the mobile station at the time of conducting the encryption key generation procedure, and generating corresponding encryption keys in

the network entity and the mobile station on the basis of the encryption base value (see [0064] and [0066]) or (see Matsumoto, column 2, lines 11-25, see “*generated encryption key*”).

Regarding claim 16, Reich further teaches the encryption base value is a regularly changed value that is broadcast by the network to listening mobile stations (see [0064] and [0066]).

3. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al (US 2002/0184256 A1) in view of Matsumoto et al (US 6,711,264) and further in view of Pang et al (US 6,931,543).

Regarding claim 12, the combination of Reich and Matsumoto teaches claim 11. The combination of Reich and Matsumoto does not specifically disclose the messages are arranged such that they have a first part and a second part, the first part being an unencrypted part that is not allowed to be encrypted, and the second part being encryptable.

Pang teaches the messages are arranged such that they have a first part and a second part, the first part being an unencrypted part that is not allowed to be encrypted, and the second part being encryptable (see column 4, lines 10-19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Pang into the system of Reich and Matsumoto in order to prevent data from being loss (see Pang, column 2, lines 33-34).

Regarding claim 13, the combination of Reich and Matsumoto teaches claim 11. The combination of Reich and Matsumoto does not specifically disclose the messages are arranged such that the first part contains an encryption indication of whether the second part is encrypted or not, and the determining of whether the second part of the received message is encrypted or not is achieved by analysing the encryption indication.

Pang teaches the messages are arranged such that the first part contains an encryption indication of whether the second part is encrypted or not, and the determining of whether the second part of the received message is encrypted or not is achieved by analysing the encryption indication (see column 4, lines 10-19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Pang into the system of Reich and Matsumoto in order to prevent data loss (see Pang, column 2, lines 33-34).

4. Claims 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reich et al (US 2002/0184256 A1) in view of Matsumoto et al (US 6,711,264) and further in view of D'Amico et al (US 5,077,790).

Regarding claim 17, the combination of Reich and Matsumoto teaches claim 11. The combination of Reich and Matsumoto does not specifically disclose the encryption conducted as a part of a registration procedure of the key generation procedure is mobile station with the network entity.

D'Amico teaches the encryption conducted as a part of a registration procedure of the key generation procedure is mobile station with the network entity (see column 1, lines 65 to column 2, line 6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of D'Amico into the system of Reich and Matsumoto in order to a method for registration of a portable unit maybe utilized in a communication system the comprises a network controller (see D'Amico, column 1, lines 41-43).

Regarding claim 19, the combination of Reich and Matsumoto teaches claim 18. The combination of Reich and Matsumoto does not specifically disclose the controller is arranged to conduct the encryption key generation procedure as a part of a registration procedure of the mobile station with the mobile communication network.

D'Amico teaches the controller is arranged to conduct the encryption key generation procedure as a part of a registration procedure of the mobile station with the mobile communication network (see column 1, lines 65 to column 2, line 6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of D'Amico into the system of Reich and Matsumoto in order to a method for registration of a portable unit maybe utilized in a communication system the comprises a network controller (see D'Amico, column 1, lines 41-43).



***Allowable Subject Matter***

5. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 14, claim 14 is objected for the reasons as stated in previous Office action, page 7 (dated 10/19/05).

***Response to Arguments***

6. Applicant's arguments with respect to claims 11-20 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (571) 272-7911. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

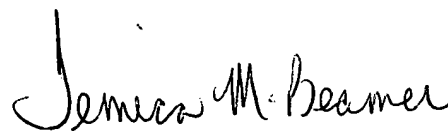
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Nghi H. Ly

  
03/27/06

  
TEMICA BEAMER  
PRIMARY EXAMINER  
3/30/06